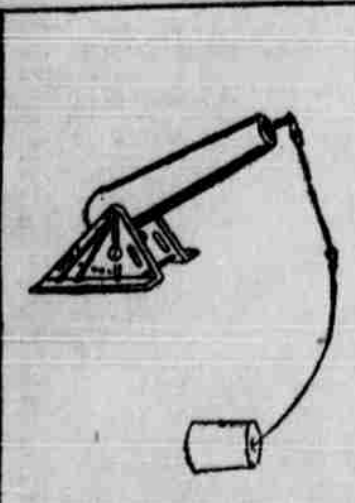


## SCIENCE AND INVENTION

### NEW LIFE SAVING APPARATUS

Attachment Prevents Burning of Rope Shot From Gun—Does Not Interfere With Flight.

Just at this season of the year the life saving apparatus is very much in the limelight and the attachment for life saving guns invented by a New York man is of especial interest. Those who have seen these guns on the beach at coast resorts will recall that they are cannon with an adjustable range that shoot out rods to one end of which is attached an end of a coil of rope contained in a receptacle at their side. The heat of the blast, however, has been known to set fire



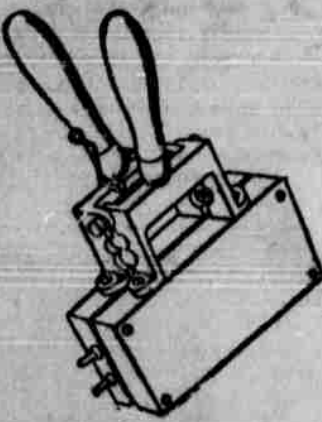
Fireproof Joint Holds Line.

to the lifeline with the result that it did not reach its destination. The attachment here shown consists of a long fireproof joint that connects the end of the missile in the gun with the free end of the rope, engaging both with a series of elastic loops that allow such perfect freedom of movement as not to interfere in the slightest with the flight of the missile.

### PRESSING IRONS ARE HANDY

Cream Made in Trousers by Drawing Edge Between Them—Bother With Tailor Eliminated.

A New York genius has designed a pair of pressing irons that make a man independent of the tailor after his clothes are made. They are also handy for persons traveling who want to preserve a neat appearance. The irons are two hollow box-like affairs mounted on handles, which have spring holding frames. Normally the irons are together, but when the handles are pressed together they open. The edge of a pair of trousers is then placed between them and they are



Handy Pressing Irons.

drawn the length of the trouser leg, imparting as fine a crease as any tailor can give with the old-style iron. This new implement is heated by electricity and has an attachment therefore for one end. All the traveler need do is hitch it up to the electric fixture in his hotel room and press his trousers in a few minutes. It will also press other garments or flat goods excellently.

**Low Temperature on Fish.**  
M. Pictet, the French scientist, has been conducting some experiments to ascertain the effect of low temperature on fish and animals. He has been at work on this subject at times for 18 years, and he finds that with all the animals with which he has experimented the common snail can withstand the greatest amount of cold. He has subjected them to a temperature of 120 degrees C. below freezing point, and then nursed them back to an active life. As a rule fish will withstand a temperature of 20 degrees below this they are killed. At 20 degrees the body of the fish is as brittle as ice itself and may be broken as a piece of ice, but after being thawed out the are as lively as before their trigid experience.

**Value of Sunburned Face.**  
It is believed by the Lancet that the sunburned face is of value because it implies that the individual has been exposed to a fresh, healthy and open environment. The active light rays of the sun undoubtedly give a healthy stimulus to the respiratory process, since under their influence it has been proved that the quantity of oxygen absorbed is greater, while an increasing output of carbonic acid follows.

**Photographing Fish.**  
In order to photograph fish in their natural surroundings, a student of the camera has built a pond with an observation chamber let in at the side and below the surface of the water. Through the window of this chamber, unnoticed by the fishy tribe, he watches and photographs their movements.

**Meaning of "Hangar."**  
The art and practice of aviation have revived the use of a word, unfamiliar to most ears. It is the designation "hangar," pronounced "hong-gor," and means a shed or shelter for a machine.

### AVERAGE WEIGHT OF BRAIN

Professor Frederick W. Mott Gives Difference Between Savages and Races Long Civilized.

Professor Frederick W. Mott, lecturing before the Royal Institution of Great Britain on "The Brain," said that although in 88 per cent of the cases in which the brains of great men had been weighed the weight was above the average, brain weight itself did not always mean brain quality. When there was lack of the functioning tissue, the lecturer explained, the structural material might receive more than its normal share of nourishment and the extra weight be due to overgrowth of "brain scaffolding." This accounted for the very large and heavy brains sometimes found in congenital idiots. Pointing out that the brain weight of a race long civilized surpassed that of aborigines, the lecturer stated that where as the ordinary European hospital patient had a heavier brain than a savage, the Chinese coolie laborer's brain, developed by centuries of use, weighed 1 1/2 ounces more than that of the European hospital patient.

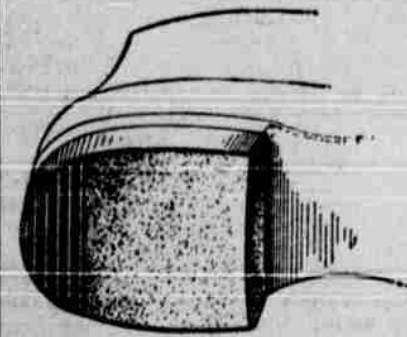
Referring to the relative brain weights of Caucasian men and women, Professor Mott said that the female brain had a good start, weighing nearly 1 1/2 ounces more than the male brain at birth. In adult life, however, the average man's brain weighed about 5 1/2 ounces more than the woman's.

The average weight of the European male brain is 2 pounds 15 ounces 9 drams, and of the female brain 2 pounds 10 ounces 14 drams. Among savages there was not this difference, since in the struggle for existence the female had to apply her brain as fully as the male, hence it was developed at practically the same rate.

### RUBBER HEEL IS DETACHABLE

Device is Adaptable Where Desired at Different Times and Its Removal at Others.

The Scientific American illustrates and describes a rubber heel, recently invented by Andrew W. Carlson of Spokane, Wash. This invention comprehends a rubber heel of a peculiar conformation adapted for removable en-



Detachable Heel.

agement with the heel of a boot or shoe. The inventor provides a rubber heel together with means whereby it may be securely held in position on the heel, a rubber heel being provided with an extending engaging means whereby it may be positioned on the heel. A perspective view is given in the illustration, showing the heel in position with the fastening means. The device is adaptable for use in cases where one may desire the rubber heel at some times during the day and its removal at another time. The fastening means comprises a bent number having inwardly extending portions and it is formed of resilient metal.

**Temperature of Hats.**  
The inside temperature of men's hats was among the interesting illustrations at the Dresden Hygienic exposition. In the sun, with an external temperature of 98.8 degrees F., the inside of a yacht club cap showed 98.6 degrees; a Prussian helmet, 97.7 degrees; an English cap, 94.1 degrees; a black derby hat, 92.3 degrees; a white silk hat, 89.6 degrees; a soft white felt hat, 86 degrees; a light straw hat, 79.9 degrees; a Panama hat, 77.9 degrees.

## NOTES OF SCIENCE AND INVENTION

Scales for weighing diamonds are so delicate and sensitive that the weight of an eyelash will turn the balance. The best safeguard against infection diseases is to keep both mind and body in a healthy condition.

Tests appear to show that the wind will carry disease-breeding bacteria 200 feet, and even 60 feet during rain fall. Ingenious tackle has been devised to make a tree that is being felled pull its own stump from the ground with it.

The handwriting of a people varies from age to age. The writing of one country may be easily distinguished from that of another.

The most famous bridge in the world, the Bridge of Sighs at Venice, so called because it led the way to a prison, was built in 1589.

A new doll that its inventor claims is indestructible is made of properly shaped block of wood, joined by spring steel wire and hinges.

Of the Atlantic ocean, the deepest part is at a point between the West Indies and Bermuda. The depth is 16,622 fathoms, about five and one-third miles.

The intense cold of the polar regions renders the atmosphere from microbes. Throat and lung diseases are unknown there, as well as contagious maladies.

A new vegetable digging fork is hinged and provided with a pedal so that its user can avail himself of the power of one foot instead of straining his back to lift weights.

A German chemist claims to have melted metals in a vacuum by focusing the sun's rays upon them without necessitating the use of a container of high heat resisting properties.

## New News of Yesterday

By E. J. EDWARDS

### W. M. Evarts and the Potters

Story of the Witty and Famous Statesman and His Friend, the Protestant Episcopal Bishop of New York.

William M. Evarts gained international fame as an orator. His speech as the leading counsel in the defense of President Johnson in the impeachment proceedings before the senate is one of the finest examples of American professional oratory. His speech before the Geneva tribunal, organized to arbitrate the so-called Alabama claims, is regarded as a masterpiece; and it won the case. As secretary of state Mr. Evarts added to his other great achievements by very successful diplomacy. In the senate he was, until illness incapacitated him, numbered among the leaders. But in addition, Mr. Evarts gained the highest reputation as a wit ever secured by an American. That reputation was enhanced by the fact that there never was any malice in his wit, although he was prone sometimes to exercise it at the expense of friends who enjoyed his closest intimacy. One of the most intimate of Mr. Evarts' personal friends was the Bishop Henry C. Potter of New York.

Bishop Potter himself was a very witty man, there always was an exchange of wit between these two when they met. Mr. Evarts sometimes gently chiding the bishop on the eminent respectability of his various flocks. About 1885, when Mr. Evarts was elected a member of the United States senate, he entertained a number of his friends at his country place at Windsor, Vt., during a week end. One evening after dinner, as Senator Evarts was chatting over the coffee with his guests, one of them said to him: "Senator, you are of course acquainted with Bishop Potter?" The senator hesitated and his countenance as though the name seemed familiar to him and yet he could not identify it with any of his acquaintances. At last he said, hesitatingly, enunciating each syllable, each word almost as though it stood alone: "Potter—Bishop Potter—no, I don't seem to recall the gentleman."

"But you must know him," persisted the guest. "He is the Protestant Episcopal Bishop of New York." Again Senator Evarts hesitated, apparently trying to recall whether he had ever met the Protestant Episcopal

bishop of New York. At last his face cleared.

"Oh, yes," he said—and his manner of speech was that of a minute or two before—you mean Henry Potter, the apostle to the gentiles. Yes, I am acquainted with him."

On another occasion, when Bishop Potter was entertaining at dinner a considerable number of distinguished Americans and a member of parliament whose surname, like his own, was Potter, Senator Evarts was called upon to make a speech. There have been various versions of that speech, but I believe the one here given to be the correct one.

With an assumed solemnity of manner, which always prepared dinner guests who knew his ways for an unusual outburst of wit, the senator began by saying that as he found himself sitting at table in companionship with a Potter who was a bishop, a Potter who was a member of parliament, a Potter who was a great lawyer and had been a member of congress and chairman of the presidential election investigating committee in 1877, and a Potter who was a great architect, he, Evarts, was

reminded of an anecdote which he had heard when he was taking one of his brief excursions from his summer home in Vermont into the delightfully rural villages of that state. And this was the way Senator Evarts told the anecdote:

"There came among the people of one of the larger communities of Vermont a young clergyman, who was to be the pastor of the largest church in that community. He was a modest young man and of little experience in the world. He perceived that among his parishioners were men and women of great intelligence and high cultivation. He, therefore, desired to prepare his first sermon in such manner as would be acceptable to the people. But when he began the sermon he was very much agitated by embarrassment and diffidence; and he said, by way of preliminary prayer: 'O, Lord, in this presence we now acknowledge that Thou art the clay and we are the potters.' And," continued Senator Evarts, when the laughter had subsided so that he could be heard: "I am now satisfied that these are the Potters to whom that embarrassed clergyman referred."

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### Eloquent Speech of a Sailor

How James Marlow's Description of a Naval Engagement Was Praised and Later Rewarded by William M. Evarts.

A few weeks after the historic naval battle in Hampton Roads in the early spring of 1862, between the Merrimack and the Monitor, a great mass meeting was held at the Academy of Music in New York city to celebrate the triumph of the little

The chairman of the meeting was William E. Dodge, of national reputation as a philanthropist, member of one of the greatest mercantile firms of the time, and at one time a member of congress. William M. Evarts, who needs no introduction even at this day, was the chief speaker of the evening.

When the tumultuous applause which came at the close of the speech had died away, Mr. Dodge rose and said: "We have upon the platform a sailor who is a survivor of the gallant crew of the man-of-war Cumberland which the Merrimack sank. I am sure you will all be glad to hear his description of the battle."

### Cleveland's Act Explained

He Made Pearson Postmaster at New York to Prove the Sincerity of His Advocacy of Civil Service.

One of the first appointments made by President Cleveland after he had sent the names of his cabinet nominations to the senate a few hours after his first inauguration in 1889, was that of Henry G. Pearson as postmaster at New York.

It has always been a public mystery why President Cleveland, the first Democratic president since Buchanan, should have decided to make practically his first important appointment outside of his cabinet appointments that of a very prominent Republican to a very influential office. Mr. Cleveland, when there came a Democratic howl over the giving of the country's largest postoffice into the keeping of a member of the opposite political faith, gave no reason for his choice. Nor did he offer any explanation to many of his more intimate political friends who hinted that they were puzzled over the appointment. Now, however, I am able to give the reason as President Cleveland gave it to one who, after Mr. Cleveland had retired to private life, asked him the cause of the appointment; and I think this is the first public explanation ever made of the appointment.

"Mr. Pearson's appointment was urged upon me by just one Republican, and because he urged it it was made," said Mr. Cleveland. "The Republican who urged the appointment in face of the fact that he knew there were plenty of Democrats who were hungry to be appointed postmaster of New York was Dorman B. Eaton, the civil service reformer. He told me that if I would reappoint Mr. Pearson postmaster at New York I would do more to advance the cause of civil service than I could accomplish in a dozen recommendations to congress."

"Mr. Pearson, Mr. Eaton told me,

had been the executive head of the civil service system in the New York post office from the time of its inception, both as assistant postmaster and as postmaster under Arthur. He further told me that it was largely through the success of the civil service in the New York post office that he had been able to induce congress in 1883 to act favorably upon the first civil service bill ever presented to congress. That was the bill championed by George H. Pendleton of Ohio in the senate. Mr. Eaton drafted that act, though it came to bear Senator Pendleton's name, and it was Eaton who largely kept the members of congress who were fighting for the passage of this civil service bill supplied with arguments and moral courage.

"But that was not all that Mr. Eaton told me," continued Mr. Cleveland. "He did not hesitate to remind me that as I was known to be a warm advocate of civil service it would be difficult for me to make my public advocacy of civil service consistent with my conduct if I were to ignore Postmaster Pearson, who had done so much for civil service, and give his office to a Democrat. On the other hand, Mr. Eaton went on to say that if I were to reappoint Mr. Pearson postmaster, Republican though he was, I would thereby show how consistent and sincere my attitude upon civil service was."

"That was a line of reasoning that it was hard to escape from, and so I decided to nominate Mr. Pearson for postmaster, and I did. I had some of the party leaders barking at me, one in particular criticizing me severely for giving one of the best offices at the disposal of the president to a Republican. But I never regretted making that appointment, and I am certain that the making of it did much to persuade the public of the sincerity of my advocacy of the civil service."

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### Pet Canine Saves Jewelry

Valuables in Handbag Are Picked Up by a City Hall Dog and Returned to Owner.

It's the limelight once more for little dog Spot at city hall. Spot has a varied ancestry, and somewhere in his family tree there is a drop or two of retriever blood. Which explains why he retrieved a few hundred dollars in jewelry and cash, to the joy of a young woman visiting this city.

Miss Genevieve McDonald, who is visiting Mrs. Nunez Loring of Mount Vernon, came here and went downtown to see the big buildings. When she looked through city hall she was so busy thinking about what she had seen that she never noticed that she had dropped her handbag.

The bag fell on the floor, with politicians passing by it by scores, yet not one of them felt the call of its valuable contents to be picked up and rescued.

Spot was prowling around the build-

ing when he noticed it. He sniffed at it, and decided that "Joe" Ryan, the son of the custodian, and John Larkin, the night watchman, might like to see it. He brought it to them. When they opened it up there was a flash of three big diamond rings and the glow of a splendid pearl necklace. Also \$290 in bills.

Ryan found the cards of Miss McDonald and Mrs. Loring in the bag, and telephoned to Mrs. Loring. She said that Miss McDonald had discovered the loss of the bag after getting to Mount Vernon and would really be very grateful if Mr. Ryan would bring it back to her. "Joe" said he would.

More to the Dollar.  
George Ade, at the recent Lambs gambol in New York, objected to the extravagance of the modern wife. "It is true that the married men of today," he said, "have better halves, but the bachelors have better quarters."—Mirror.

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